

Notice of Allowability

Application No.

10/729,580

Examiner

Iraj A Mohandesi

Applicant(s)

MORRISON, CARLOS R.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/12/2004.
2. ☒ The allowed claim(s) is/are 12-16,22 and 29-40.
3. ☒ The drawings filed on 12/04/2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. Claims 12 and 16 have been amended.
2. Claims 1-11,17-21,23-28 have been canceled.
3. New claims 29-40 have been added.

Allowable Subject Matter

4. Claims 12-16,22 and 29-40 are allowed.
5. The following is an examiner's statement of reasons for allowance:
6. Claim 12 have been amended and cintains allowable subject mater of claim 19.
7. New claims 29 and 36 contain the limitations of claim 12 including the allowable subject matter of claims 19,20 and 22.
8. With regards to claims 12 and 29, the prior art of the record in particular Hollis Jr'998 does not teach or suggest a supporting structure for a software-controlled processing device coupled to first and second magnetic bearings supporting a rotor to control including inter alia a processor to selectively position the longitudinal axis relative to the principal axis, the software causing the processing devise to perform the function of controlling the force vectors to align the rotor in the first and second magnetic bearings so that the longitudinal axis thereof and the principal axis defined between the first and second magnetic bearings are not axially coincident with one another and providing a selected waveform to be impressed on the magnetic field of the first and second magnetic bearings to excite the rotor in response to the selected waveform the waveform impressed on the rotor at a selected anole relative to a fixed

reference- coordinate system and remaining stationary in that coordinate system during periods of time when the rotor is in motion.

9. With regards to claim 36, The prior art of the record in particular Hollis Jr'998 does not teach or suggest a supporting structure for a software-controlled processing device coupled to first and second magnetic bearings supporting a rotor to control including inter alia a processor to selectively position the longitudinal axis relative to the principal axis, the software causing the processing device to perform the function of controlling the force vectors to align the rotor in the first and second magnetic bearings so that the longitudinal axis thereof and the principal axis defined between the first and second magnetic bearings are not axially coincident with one another and providing a selected waveform to be impressed on the magnetic field of the first and second magnetic bearings to excite the rotor in response to the selected waveform the waveform selected from the group comprising sine waveform, sine squared waveform, cosine waveform, cosine squared waveform, random waveform, square waveform, squared pulse waveform, triangular waveform, single square waveform, single triangular waveform, saw tooth waveform.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IM August 2, 2004

A handwritten signature in black ink, appearing to read 'Dang Le' with a stylized flourish at the end.

**DANG LE
PRIMARY EXAMINER**